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The Royal Society of London

PHILOSOPHICAL TRANSACTIONS

Volume 24
1704-1705

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The Royal Society of London

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CORPORATION

NEW YORK

1963

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PHILOSOPHICAL TRANSACTIONS

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The Royal Society of London*

PHILOSOPHICAL
TRANSACTIONS.

Giving some

ACCOUNT

OF THE

Present Undertakings, Studies and Labours

OF THE

INGENIOUS,

IN MANY

Considerable Parts of the World.

VOL. XXIV. For the Years 1704 and 1705.

L O N D O N :

Printed for S. Smith and B. Walford, Printers to the
Royal Society, at the Prince's Arms in St Paul's
Church-yard. MDCCVI.

TO HIS
ROYAL HIGHNESS,
THE
PRINCE,

This Twenty Fourth

Volume of *Philosophical Transactions*
is Most Humbly Dedicated,

BY

His Most Dutiful

AND

Most Obedient Servant,

HANS SLOANE,

Soc. Reg. Secret.

PHILOSOPHICAL TRANSACTIONS.

For the Months of January and February, 1704.

The CONTENTS.

- I. *Part of a Letter from Mr Anthony van Leuwenhoeck, F. R. S. concerning Worms he observed in Sheeps Livers and Pasture Grounds.*
- II. *Solutio Problematis. A Clariff. viro D. Jo. Bernoulli in Diario Gallico Febr. 1403. Propositi. Quam D. G. Cheynæo communicavit Jo. Craig.*
- III. *Part of a Letter from John Fuller of Suffex, Esq; concerning a strange effect of the late great Storm in that County.*
- IV. *A Letter from the Reverend Mr William Derham, F. R. S. Containing his Observations concerning the late Storm.*
- V. *Part of a Letter from Mr Anth. van Leuwenhoek, F. R. S. giving his Observations on the late Storm.*
- VI. *Part of two Letters from Mr Anthony van Leuwenhoek, F. R. S. concerning the Figures of Sand.*
- VII. *Part of two Letters from Mr Thoresby, F. R. S. to the Publisher, concerning an Earthquake, which happened in some places of the North of England, the 28th of December, 1703.*
- VIII. *An Account of a Book, viz. Euclidis quæ supersunt omnia Gr. & Lat. ex recensione Davidis Gregorii, M. D. Astronomie Professoris Saviliani & R. S. S.*

(1561)

(Numb. 290.)

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- I. *A Letter of Dr William Oliver, F. R. S. concerning a Calenture.*
- II. *Carigueya, Seu Marsupiale Americanum Masculum : Or, The Anatomy of a Male Opossum : In a Letter to Dr Edward Tyson, from Mr William Cowper, Chirurgion, and Fellow of the Royal Society, London. To which are premised some further Observations on the Opossum ; and a New Division of Terrestrial Brute Animals, particularly of those that have their Feet formed like Hands. Where an account is given of some Animals not yet described. By Edward Tyson, M. D. Fellow of the College of Physicians, and of the Royal Society.*
- III. *A Letter to Dr Edward Tyson, giving an Account of the Anatomy of those parts of the Male Opossum that differ from the Female. By William Cowper. F. R. S.*
- IV. *Tractatus de Ambaro, a Reverendo, D. D. G. J. Camello, communicatus D. Jacobo Petiverio Societatis Regie Socio.*
- V. *A Letter from Dr William Oliver, Physician and Fellow of the Royal Society, to Mr Jables Petiver, F. R. S. concerning the Jesuits Bark.*
- VI. *Part of a Letter from Mr Caswell of Oxford, F. R. S. to the Reverend Mr Flamsteed, M. R. S. S. giving an account of a new Baroscope invented by him, and communicated by Mr Hodgson, F. R. S.*

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(1565)

(Numb. 291.)

PHILOSOPHICAL TRANSACTIONS.

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THE CONTENTS.

- I. *Part of two Letters from Mr Edward Lhwyd, Keeper of the Ashmolean Repository in Oxford, to Mr Samuel Dale of Braintree in Essex, concerning Fossils.*
- II. *A Letter from Mr Samuel Dale to Mr Edward Lhwyd, Keeper of the Ashmolean Repository in Oxford, concerning Hawich Cliff, and the Fossil Shells there.*
- III. *An Instrument, for seeing the Sun, Moon or Stars, pass the Meridian of any Place. Useful for setting Watches in all parts of the World with the greatest exactness, to correct Sun-Dyals; to assist in the discovery of the Longitudes of Places, &c. By the Reverend Mr William Derham, F. R. S.*
- IV. *A Supplement to the account of the Pediculus Pulfatorius, or Death-Watch, in Philos. Trans. No 271. Serving to the more perfect Natural History of that Insect. By the Reverend Mr William Derham, F. R. S.*
- V. *An Extract of a Letter from Mr Ralph Thoresby, F. R. S. to Dr Nehemiah Grew, Fellow of the College of Physicians and R. S. concerning a Ball voided by Stool.*
- VI. *Defectus Lune Observatio, die Solis 12^o Decembris, habita prope Mercatorium Regium Londini, a J. Hodgson, R. S. S. tempore mutatio, A. 1703.*
- VII. *An account of Books. 1. Epistola D. Guilhelmi Musgrave, S. R. S. ad Editorem missa, in qua ratio redditur libri nuper editi, cui titulus, De Arthritide Symptomica Dissertatio. Authore Guilhelmo Musgrave, M. D. Inclyti Medicorum Londinensium Collegii, & Regia Societatis Socio, in 8vo. 2. Specimen Lithographia Helvetica curiosa, quo Lapides ex Figuratis Helveticis Selectissimi Æri incisi sistuntur & describuntur, a Johanne Jacobo Scheuchzero, M. D. Tiguri, 1732, 8vo. 3. De Locis solidis secunda Divinatio Geometrica, in quinque Libros injuria Temporum amissos, Aristæi Senioris Geometræ. Authore Vincentio Viviani, Magni Ducis Etruriæ Mathematico Primario, & Regalis Societatis Londini Sodali. Opus Conicum in Lucem prolatum, Ann. 1701. Folio.*

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I. Part

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- I. *A Letter from Mr Antony van Leewenhoek, F. R. S. concerning Cochineel.*
- II. *An Experiment, to show the cause of the descent of the Mercury in the Barometer in a Storm. By Mr Francis Hauksbee.*
- II. *An Account of some Eclipses of the Sun and Moon, observed by Mr Tho. Brattle, at Cambridge, about four miles from Boston in New-England, whence the Difference of Longitude between Cambridge and London is determin'd, from an Observation made of one of them at London. By J. Hodgson.*
- IV. *Observations of the Weather, made in a Voyage to China. Ann. Dom. 1700. by Mr James Cunningham, F. R. S.*
- V. *A Register of the Winds and Weather, with the Observations of the Mercurial Barometer, at Chusan, an Island in 30°. 25'. N. Latitude upon the Coast of China. By Mr James Cunningham. F. R. S.*
- VI. *An Account of a Book. Lexicon Technicum: Or, an Universal English Dictionary of Arts and Sciences, explaining not only the Terms of Art, but the Arts themselves. In Folio. By J. Harris, M. A. and F. R. S.*

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For the Months of September and October, 1704.

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- I. *De Orbita Cassiniana.* By Dr Gregory.
- II. *Father Camel de Plantis Philippenfis Scandentibus, sent very lately to Mr James Petiver, F. R. S. to which is added, a Catalogue of such Herbs he formerly sent him, the Designs of which are already Described by that most accurate Botanist Mr John Ray, in the Appendix to his 3d Volume of Plants.*
- III. *A Letter from Mr Antony van Leeuwenhoek, F. R. S. concerning the flesh of Whales, Crystalline humour of the Eye of Whales, Fish, and other Creatures, and of the use of the Eye-lids.*
- IV. *A Letter from Mr Antony van Leeuwenhoek, concerning the Tubes or Canals that convey the yellow Sap in the Herb called Chelidonium majus, or Celandine, &c.*
- V. *A Letter from Mr Antony van Leeuwenhoek, F. R. S. to John Chamberlain, Esq; F. R. S. concerning Tobacco ashes.*
- VI. *Cuculus Lævis cæruleo flavescens, cui in supremo Capite Bronchiarum Opercula. Or, The Yellow Gurnard.* By Edward Tyson, M. D. Fellow of the Coll. of Physicians and R. S.
- VII. *Problema Medicinæ Cultoribus Solvendum proponit Gulielmus Cockburn, M. D. R. S. S.*
- VIII. *Part of a Letter from Dr David Krieg, concerning Cobalt, and the Preparations of Smalt and Arsenic.*

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For the Months of November and December, 1704.

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- I. *Observations made by Captain Stannyan of the Spots that appear'd upon the Body of the Sun, in the Months of May, June and July, in the year 1704. Communicated by Mr Hodgson, F. R. S.*
- II. *Georg. Joseph. Camel. De Plantis Philippen-sibus Scandentibus ; Pars 2da. Ad Jacobum Peti-ver, S. R. S. nuper transmissa.*
- III. *A Letter from Mr Antony Van Leuwenhoek, F. R. S. Concerning some Fossils of Swisserland, &c.*
- IV. *Experiments about the Motion of Pendulums in Vacuo. By the Reverend Mr W. Derham, F. R. S.*

V. *An Account of a Book.*

Apicij Cœlij de Opsonijs & Condimentis sive Arte Coquinariâ Libri Decem.

Cum Annotationibus Martini Lister à Medicis Domesticis Serenissimæ Majestatis Reginae Annæ, & Varijs Lectionibus integris Humelbergij, Barthij, & Variorum.

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PHILOSOPHICAL TRANSACTIONS.

For the Month of January, 1705.

The CONTENTS.

- I. *A Letter from Mr Anthony van Leeuwenhoek, F. R. S. concerning Animalcula on the Roots of Duck-Weed, &c.*
- II. *Observations on staining the Fingers with a Solution of Silver in Aqua Fortis, &c. In a Letter from Mr Anthony van Leeuwenhoek, F. R. S.*
- III. *A Letter from Dr W. Mufgrave, F. R. S. to Dr Hans Sloane, S. R. S. concerning Hydatides voided by Stool.*
- IV. *A Letter from Mr John Thorpe, M. A. of University College in Oxford, to Dr Hans Sloane, S. R. S. concerning Worms in the Heads of Sheep, &c.*
- V. *An Account of very large Stones voided per Urethram. In a Letter from Mr Edw. Lhwyd, Keeper of the Ashmolean Museum in Oxford, to Dr Hans Sloane, S. R. S.*
- VI. *An Experiment made at a Meeting of the R. Society, Decemb. 20. 1704. Of firing Gun-powder on a red hot Iron in Vacuo Boyliano. By Mr Francis Hauksbee.*
- VII. *An Account of an Experiment made Decemb. the 26th, 1704. To try the Quality of Air, produced from Gun-powder, fir'd in Vacuo Boyliano. By Mr Fr. Hauksbee.*
- VIII. *Georg. Joseph. Camel. De Plantis Phillippensibus Scandentibus; Pars Tertia. Ad Jacobum Petiver, S. R. S. nuper transmissa.*
- IX. *Theorema Spherico-Catoptricum Universale. Per D. Humfredum Ditton.*

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- I. *R. P. Geo. Jos. Cameli, De Plantis Philippensibus Scandentibus, Pars Quarta. Ad D. Jacobum Petiver, S. R. S. nuper transmissa.*
- II. *A Letter from Mr Anthony Van Leeuwenhoek, F. R. S. concerning the Barks of Trees.*
- III. *Part of a Letter from Mr Anthony Van Leeuwenhoek, F. R. S. to John Chamberlayne, Esq; F. R. S. concerning the Vitriified Salts of Calcined Hay.*
- IV. *An Account of Insects in the Barks of decaying Elms and Ashes. In a Letter from Sir Matthew Dudley, Knight, F. R. S.*
- V. *Part of a Letter from Mr. Ralph Thoresby, F. R. S. to Dr Hans Sloane, S. R. S. concerning a Leaden Coffin, &c. taken out of a Roman Burying-place near York.*
- VI. *Experiments on the Production and Propagation of Light from the Phosphorus in Vacuo, made before the Royal Society, by Mr. Fra. Hauksbee.*

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- I. *Observations on the Seed-Vessels and Seeds of Polypodium. In a Letter from Mr Anthony Van Leeuwenhoek, F. R. S.*
- II. *Part of a Letter from Mr Ralph Thoresby, F. R. S. concerning Pewter Money, Coy'n'd in Ireland, by the late King James.*
- III. *A Prospect of the Weather, Winds, and Height of the Mercury in the Barometer, on the first day of the Month ; and of the whole Rain of every Month in the Year 1703, and the beginning of 1704. Obser'd at Towneley in Lancashire, by Ri. Towneley, Esq; and at Upminster in Essex. By the Reverend Mr W. Derham, F. R. S.*
- IV. *Astronomiæ Cometice Synopsis, Autore Edmundo Halleio apud Oxonientes Geometriæ Professore Saviliano, & Reg. Soc: S.*
- V. *Part of a Letter from the Reverend Dr Rich. Wroe, Warden of Manchester College, to Dr Hans Sloane, S. R. S. concerning Horn-like Excrescences growing on the Fingers, &c.*
- VI. *An Extract of a Letter from Mr Ralph Thoresby, F. R. S. to Dr Hans Sloane, S. R. S. concerning some Swedish Coins ; and a Calculation for the finding of Easter.*
- VII. *An Account of an Experiment made at a Meeting of the Royal Society at Gresham College, upon the propagation of Sound in Condensed Air, together with a Repetition of the same in the open Field. By Mr F. Hauksbee.*
- VIII. *An Experiment made at a Meeting of the Royal Society, touching the Diminution of Sound in Air rarify'd. By Mr Fr. Hauksbee.*

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- II. *A Register of the Weather for the year 1692, kept at Oats in Essex. By Mr John Locke.*
- III. *Memorabilia nonnulla Lacûs Vetteri, Auctore Urbano Hearne, M. D. Serenissimæ Reg. Majest. Suecicæ Archiatro, & Conciliario Collegij Metallici ord. nec non Societat. Regiæ Londinensis Socio.*
- IV. *Experiments on the Resilition of Bodies in Common Air, in Vacuo, and in Air Condens'd, made at meeting of the Royal Society at Gresham College. By Mr Fr. Hauksbee.*
- V. *An Experiment on the descent of Malt dust in the Evacuated Receiver, made at Gresham College. By Mr Fr. Hauksbee.*

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PHILOSOPHICAL TRANSACTIONS.

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- I. *An Account of Animals and Shells sent from Carolina to Mr James Petiver, F. R. S.*
- II. *The Doctrine of Combinations and Alternations, Improv'd and Compleated, by Major Edward Thornycroft.*
- III. *Of Ossifications or Pêtrifications in the Coats of Arteries, particularly in the Valves of the Great Artery, by William Cowper, Surgeon, and F. R. S.*
- IV. *An Account of a Dropfical Body dissected by Mr John Lafage.*

An Account of a Book, By James Douglas, M. D.

- V. *De Aure Humana Tractatus ; In quo integra Auris Fabrica, multis novis Inventis, & Iconis-
mis illustrata, describitur ; omniumque ejus
Partium Usus indagantur. Quibus interposita
est Musculorum Uvulæ, atque Pharyngis nova
Descriptio, & Delineatio. Auctore Antonio
Maria Valsalva Imolenfi, Philosophiæ & Medi-
cinæ Doctore, in Bononiensi Universitate ad Inci-
sionem & Oïensionem Anatomicam Professore
Conducto, necnon Nosocomii Incurabilium
Chirurgo. Bononiæ MDCCIV. In Quarto.*

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I. An

For the Month of June, 1705.

- I. *Part of a Letter from Mr D. Papin, to Dr Frederick Slare, Fellow of the College of Physicians and of the Royal Society, concerning an Improvement of the Hessian Bellows, &c.*
- II. *Part of a Letter written to a Most Reverend Prelate, in answer to one written by his Grace, judging the Age of MSS, the Style of Learned Authors, Painters, Musicians, &c. By Mr Humfrey Wanley.*
- III. *An Account of a Person deceased of a Scirrhus Tumor in his Breast. By Mr Tho. Greenhill, Surgeon.*
- IV. *An Abstract of a Book, Entituled, Olavi Rudbeckij Atlantica, sive Manhemij pars secunda. In qua Solis, Lunæ & Terræ Cultus describitur, omnisque adeo superstitionis hujusce Origo parti Sueoniæ Septentrionali, Terræ puta Cimmericorum vindicatur, ex qua deinceps in orbem reliquum divulgata est, &c. Accedunt demonstrationes certissimæ, quæ Septentrionales nostros, in maxime genuinum Solis ac Lunæ motum, indeq; pendentem accuratissimam temporum rationem, multo & prius & felicius quam gentem aliam ullam penetrasse declarant. Upsalæ. In Folio.*

I. Part

PHILOSOPHICAL TRANSACTIONS.

For the Month of July, 1705.

The CONTENTS.

- I. Catalogus Concharum fossilium, Metallorum, Mineralium, &c. quæ a Cl. D. Johanne Jacobo Scheuchzero, M. D. Tiguri, & Societat. Reg. Angl. Soc. nuper accepit D. Jacobus Petiver, S. R. S.
- II. *Epistola* D. Joannis Philippi Breynii, M. D. & Societat. Reg. Soc. De Plantis & Insectis quibusdam rarioribus in Hispania observatis.
- III. Part of a Letter from Mr N. Regnart, concerning a Pin found in the Gizzard of a Fowl.
- IV. Olavi Rudbeckij *Atlantica*, seu Manheimij *Pars Tertia*. In qua vetustissima majorum nostrorum Atlantidum lapidibus, fago, æri, sive cortici Runas suas incidendi ratio, una cum tempore, quo illa primo ceperit, exponitur. Necnon Aurei numeri singulis annis tributi, & Signorum Cœlestium, quæ abhinc ad Græcos & Latinos sunt translata, vera origo & significatio traditur. Et illæ a diluvio Noachi primæ ætates, atque in illis prima Atlantidum nostrorum forma describuntur: quæ migrationes & bella sub Boreo, seu Saturno, ejusq; filio Thoro seu Jove gesta sunt, recensentur: & denique Scytharum,

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PHILOSOPHICAL TRANSACTIONS.

For the Month of August, 1705.

The CONTENTS.

- I. *Mineralia quadam, Conchyliæ petrefacta, & alia Fossilia à Berolina à Clariss. Christian. Maximiliano Spener, Doct. Med. Reg. Pruss. Aul. Acad. S. R. S. Cur. & Soc. Scient. Reg. Brandenburg. Colleg. ad Amicum suum curiosissimum D. Jacob. Petiver, Pharmacop. Londin. & Societ. Reg. Soc. missa.*
- II. *De Piscibus Molluscis & Crustaceis Philippenfis, Ex MSS. R. P. Geo. Jos. Camelli ad D Jacobum Petiver, S. R. S. transmissis.*
- III. *Epistola Viri Reverendi D. Georgii Hickes, S. T. P. ad D. Hans Sloane, M. D. & S. R. Secr. De varia lectione inscriptionis, quæ in statua TAGIS exaratur, per quatuor Alphabeta Hetrusca.*
- IV. *The Theory of Musick reduced to Arithmetical and Geometrical Proportions, by the Reverend Mr Tho. Salmon.*
- V. *Part of a Letter from the late Sir Philip Skippon, Kt, to the late Reverend Mr John Ray, concerning the Bones of a Humane Foetus voided thro' an Impostume in the Groin. Communicated to the Publisher, by Mr Samuel Dale.*
- VI. *An Abstract of a Book, Entitled, ΝΕΚΡΟΚΗΛΕΙΑ: Or, The Art of Embalming; wherein is shewn the Right of Burial and Funeral Ceremonies, especially that of Preserving Bodies after the Egyptian Method. Together with an Account of the Egyptian Mummies, Pyramids, Subterranean Vaults and Lamps, &c. Part I. Illustrated with a Map and fourteen Sculptures. By Tho. Greenhill, Surgeon. In 4to. London, 1705.*
- VII. *An Extraordinary Case of a Costive Person, in a Letter from Mr B. Sherman, to Dr Beeston of Ipswich; with a Note on the same, by Mr William Cowper, F. R. S.*

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PHILOSOPHICAL TRANSACTIONS.

For the Months of September and October, 1705.

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- I. *Epistola D. Antonii Mesaporigi, M. C. Genuensis ad Cl. Antonium Valfesnerium, Med. Pract. Prof. P. Patavin. de Eruptione Sanguinis e singulis fere corporis humani partibus; & de dolore Ventris ab intestinis in crassam & Cartilagineam substantiam concretis orto.*
- II. *Gulielmi Cockburni M. D. Solutio Problematis de Purgantium & Emeticorum Medicamentorum Dosibus determinandis in quacunq; Hominis Ætate, Temperamento, Temperamenti varietate per universum Terrarum orbem, ab ipso mense Martio proxime elapso, in Actis Philosophicis propositi. Et Illustri admodum Doctq; D. Edwardo Southwell, Annæ Reginæ à Secretis Hibernicis, &c. consecrata.*
- III. *An Explanation of the Rule for the finding of Easter. In a Letter from the Reverend Mr J. Jackman to Dr Hans Sloane, S. R. S.*
- IV. *Part of a Letter from Mr Thoresby, F. R. S. to Dr Hans Sloane, S. R. S. concerning some Norman Coyns found at York.*
- V. *Several Experiments on the Mercurial Phosphorus, made before the Royal Society at Gresham College. By Mr Fra. Hauksbee, F. R. S.*
- VI. *An Account of some Magnetical Experiments and Observations. By W. Derham Rector of Upminster in Essex, F. R. S.*
- VII. *Farther Observations and Remarks on the same subject.*
- VIII. *A Letter from Mr Ralph Thoresby, F. R. S. concerning a Roman Inscription lately found at York, &c.*
- IX. *An Account of some Roman Coyns found at Clifton near Edlington in Yorkshire. By Mr Ralph Thoresby F. R. S.*
- X. *Joh. Conradi Beckeri, Paradoxum Medico Legale de Universorum Mortefine pota Aqua, Aliquot Cadaverum sectionibus detectum & è principis mechanicis illustratum, &c.*

PHILOSOPHICAL TRANSACTIONS.

For the Months of November and December, 1705.

The CONTENTS.

- I. *Several Microscopical Observations on the Pumice-Stone, Coral, Spunges, &c. In a Letter from Mr Anthony Van Leuwenhoek, F. R. S.*
- II. *Part of a Letter from Mr Ralph Thoresby, F. R. S. concerning a large Ball voided by Stool.*
- III. *Several Experiments on the Attrition of Bodies in Vacuo. Made before the Royal Society at Gresham College, by Mr Fr. Hauksbee, F. R. S.*
- IV. *Part of a Letter from Dr Samuel Brady, to Dr William Cockburn, F. R. S. giving an Account of a Puppy in the Womb that receiv'd no Nourishment by the Mouth.*
- V. *A Relation of an extraordinary sleepy Person, at Tinsbury, near Bath. By Dr William Oliver, F. R. S.*

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